OM protein - protein search, using sw model

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Run on: July 9, 2002, 12:19:00 ; Search time 15.96 Seconds
(without alignments)
32.207 Million cell updates/sec

Title: US-09-759-484-3
Perfect score: 22
Sequence: 1 AMVSE 5
Scoring table: BLOSUM62
                Gapop 10.0 , Gapext 0.5
Searched: 315933 seqs, 10280423 3 residues

Total number of hits satisfying chosen parameters: 315933

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
                 Maximum Match 100%
                 Listing first 45 summaries

Database :   Pending_Patents_AA_New:*
1: /cgn2_6/ptodata/2/paa/PCT_NEW_COMB.pep:*
2: /cgn2_6/ptodata/2/paa/US05_NEW_COMB.pep:*
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep:*
4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep:*
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6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep:*
7: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep:*

SUMMARIES

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

Result No.	Score	%	Query Match Length	DB	ID	Description
1	22	100.0	6	6	US-10-155-881-19006	Sequence 19006, A
2	22	100.0	92	5	US-09-620-393B-7044	Sequence 7044, Ap
3	22	100.0	110	6	US-10-155-881-27071	Sequence 27071, A
4	22	100.0	219	6	US-10-155-881-32065	Sequence 32065, A
5	22	100.0	287	6	US-10-155-881-18996	Sequence 18996, A
6	22	100.0	346	7	US-60-360-039-4933	Sequence 4933, Ap
7	22	100.0	368	7	US-60-360-039-7691	Sequence 7691, Ap
8	22	100.0	496	7	US-60-360-039-17032	Sequence 17032, A
9	22	100.0	768	6	US-09-935-625-16110	Sequence 16110, A
10	22	100.0	950	6	US-10-155-881-18997	Sequence 18997, A
11	22	100.0	1345	6	US-09-935-625-16229	Sequence 16229, A
12	22	95.5	201	5	US-09-620-393B-801	Sequence 801, App
13	22	95.5	213	5	US-09-620-393B-800	Sequence 800, App
14	21	95.5	220	5	US-09-620-393B-799	Sequence 799, App
15	21	95.5	263	5	US-09-935-625-8720	Sequence 8720, Ap
16	21	95.5	265	6	US-10-155-881-28168	Sequence 28168, A
17	21	95.5	319	7	US-60-360-039-13462	Sequence 13462, A
18	21	95.5	319	7	US-60-360-039-18275	Sequence 18275, A
19	21	95.5	370	6	US-10-155-881-28111	Sequence 28111, A
20	21	95.5	527	5	US-09-540-209B-9085	Sequence 9085, Ap
21	21	95.5	594	5	US-09-935-625-6889	Sequence 6889, Ap
22	21	95.5	600	7	US-60-360-039-12219	Sequence 12219, A
23	21	95.5	728	5	US-09-935-625-6888	Sequence 6888, Ap
24	21	95.5	777	5	US-09-935-625-8365	Sequence 8365, Ap
25	21	95.5	1080	5	US-09-935-625-6887	Sequence 6887, Ap
26	21	95.5	1080	5	US-09-935-625-25559	Sequence 25559, A
27	21	95.5	1092	5	US-09-935-625-8364	Sequence 8364, Ap
28	21	95.5	1092	5	US-09-935-625-25558	Sequence 25558, A
29	21	95.5	1138	5	US-09-935-625-8363	Sequence 8363, Ap
30	21	95.5	1138	5	US-09-935-625-25557	Sequence 25557, A
31	21	86.4	36	6	US-10-120-319-18	Sequence 18, Appl
32	19	86.4	69	6	US-09-620-393B-7099	Sequence 7099, App
33	19	86.4	71	5	US-09-620-393B-726	Sequence 726, App
34	19	86.4	76	6	US-10-155-881-20883	Sequence 20883, A
35	19	86.4	78	6	US-10-155-881-21011	Sequence 21011, A
36	19	86.4	84	5	US-09-935-625-32095	Sequence 32095, A
37	19	86.4	90	1	US-10-144-860-206	Sequence 206, App
38	19	86.4	90	6	US-10-097-340-181	Sequence 181, App
39	19	86.4	123	6	US-09-975-502A-6	Sequence 6, Appli
40	19	86.4	129	5	US-09-935-625-33203	Sequence 33203, A
41	19	86.4	143	5	US-10-155-881-21011	Sequence 21011, A
42	19	86.4	143	5	US-09-667-170A-36	Sequence 36, Appl
43	19	86.4	147	5	US-09-620-393B-3530	Sequence 3530, Ap
44	19	86.4	147	5	US-09-620-393B-7153	Sequence 7153, Ap
45	19	86.4	153	5	US-09-620-393B-3529	Sequence 3529, Ap

ALIGNMENTS

RESULT 1
US-10-155-881-19006
Sequence 19006, Application US/10155881
; GENERAL INFORMATION:
; APPLICANT: Dotson, Stanton B.
; APPLICANT: Kovalic, David K.
; APPLICANT: Liu, Jingdong
; APPLICANT: Luthiyya, Linda L.
; APPLICANT: McGinnis, James
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
; TITLE OF INVENTION: TRANSCRIPTION IN PLANTS
; FILE REFERENCE: 38-21(15300)J
; CURRENT APPLICATION NUMBER: US/10/155,881
; CURRENT FILING DATE: 2002-05-22
; NUMBER OF SEQ ID NOS: 37595
; SEQ ID NO 19006
; LENGTH: 62
; TYPE: PRT
; ORGANISM: Glycine max

Query Match 100.0%; Score 22; DB 6; Length 62;
Best Local Similarity 100.0%;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy   1  AMVSE   5
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Db  44  AMVSE  48
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RESULT 2
US-09-620-393B-7044
Sequence 7044, Application US/0920393B
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nickolai et al.
; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTID
; TITLE OF INVENTION: THEREBY
; FILE REFERENCE: 2750-1068P
; CURRENT APPLICATION NUMBER: US/09/620,393B
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 9948
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 7044
; LENGTH: 92
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature

```
;    LOCATION: 1..92
;    OTHER INFORMATION: Xaa is any amino acid
;    FEATURE:
;      NAME/KEY: misc_feature
;      LOCATION: 1..92
;      OTHER INFORMATION: Ceres Seq. ID 1396003
US-09-620-393B-7044

Qy    1 AMVSE 5
        |||||
Db    6 AMVSE 10
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RESULT 3
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US-10-155-881-27071
Sequence 27071, Application US/10155881
GENERAL INFORMATION:
;    APPLICANT: Dotson, Stanton B.
;    APPLICANT: Kovalic, David K.
;    APPLICANT: Liu, Jingdong
;    APPLICANT: Lutfiyya, Linda L.
;    APPLICANT: Mcninch, James
;    TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
;    TITLE OF INVENTION: TRANSCRIPTION IN PLANTS
;    FILE REFERENCE: 38-21(15300)J
;    CURRENT APPLICATION NUMBER: US/10/155,881
;    CURRENT FILING DATE: 2002-05-22
;    NUMBER OF SEQ ID NOS: 37595
;    SEQ ID NO 27071
;    LENGTH: 110
;    TYPE: PRT
;    ORGANISM: Oryza sativa
US-10-155-881-27071

Query Match             100.0%;  Score 22;  DB 5;  Length 110;
Best Local Similarity   100.0%;  Pred. No. 18;
Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     1 AMVSE 5
         |||||
Db    55 AMVSE 59
```

RESULT 4
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US-10-155-881-32065
Sequence 32065, Application US/10155881
GENERAL INFORMATION:
;    APPLICANT: Dotson, Stanton B.
;    APPLICANT: Kovalic, David K.
;    APPLICANT: Liu, Jingdong
;    APPLICANT: Lutfiyya, Linda L.
;    APPLICANT: Mcninch, James
;    TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
;    TITLE OF INVENTION: TRANSCRIPTION IN PLANTS
;    FILE REFERENCE: 38-21(15300)J
;    CURRENT APPLICATION NUMBER: US/10/155,881
;    CURRENT FILING DATE: 2002-05-22
;    NUMBER OF SEQ ID NOS: 37595
;    SEQ ID NO 32065
;    LENGTH: 219
;    TYPE: PRT
;    ORGANISM: Glycine max
US-10-155-881-32065

Query Match             100.0%;  Score 22;  DB 6;  Length 219;
Best Local Similarity   100.0%;  Pred. No. 51;
Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 AMVSE 5
          |||||
Db    201 AMVSE 205
```

RESULT 5
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US-10-155-881-18996
Sequence 18996, Application US/10155881
GENERAL INFORMATION:
;    APPLICANT: Dotson, Stanton B.
;    APPLICANT: Kovalic, David K.
;    APPLICANT: Liu, Jingdong
;    APPLICANT: Lutfiyya, Linda L.
;    APPLICANT: Mcninch, James
;    TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
;    TITLE OF INVENTION: TRANSCRIPTION IN PLANTS
;    FILE REFERENCE: 38-21(15300)J
;    CURRENT APPLICATION NUMBER: US/10/155,881
;    CURRENT FILING DATE: 2002-05-22
;    NUMBER OF SEQ ID NOS: 37595
;    SEQ ID NO 18996
;    LENGTH: 287
;    TYPE: PRT
;    ORGANISM: Glycine max
US-10-155-881-18996

Query Match             100.0%;  Score 22;  DB 6;  Length 287;
Best Local Similarity   100.0%;  Pred. No. 70;
Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy      1 AMVSE 5
          |||||
Db    269 AMVSE 273
```

RESULT 6
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US-60-360-039-4933
Sequence 4933, Application US/60360039
GENERAL INFORMATION:
;    APPLICANT: Cao, Yongwei
;    APPLICANT: Chen, Xianfeng
;    APPLICANT: Goldman, Barry S.
;    APPLICANT: Hinkle, Gregory J.
;    APPLICANT: Slater, Steven C.
;    TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
;    TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
;    FILE REFERENCE: 38-10(52052)A
;    CURRENT APPLICATION NUMBER: US/60/360,039
;    CURRENT FILING DATE: 2002-02-21
;    NUMBER OF SEQ ID NOS: 47374
;    SEQ ID NO 4933
;    LENGTH: 346
;    TYPE: PRT
;    ORGANISM: Burkholderia fungorum
US-60-360-039-4933

Query Match             100.0%;  Score 22;  DB 7;  Length 346;
Best Local Similarity   100.0%;  Pred. No. 88;
Matches    5;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy     1 AMVSE 5
         |||||
Db    88 AMVSE 92
```

RESULT 7
```
US-60-360-039-7691
Sequence 7691, Application US/60360039
; GENERAL INFORMATION:
```

APPLICANT: Cao, Yongwei
APPLICANT: Chen, Xianfeng
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)A
CURRENT APPLICATION NUMBER: US/60/360,039
CURRENT FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 7691
; LENGTH: 368
; TYPE: PRT
; ORGANISM: Burkholderia cepacia
US-60-360-039-7691

Query Match 100.0%; Score 22; DB 7; Length 368;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AMVSE 5
      |||||
Db 90 AMVSE 94

RESULT 8
US-60-360-039-17032
Sequence 17032, Application US/60360039
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Chen, Xianfeng
APPLICANT: Goldman, Barry S.
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)A
CURRENT APPLICATION NUMBER: US/60/360,039
CURRENT FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 17032
; LENGTH: 496
; TYPE: PRT
; ORGANISM: Caulobacter crescentus
US-60-360-039-17032

Query Match 100.0%; Score 22; DB 7; Length 496;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AMVSE 5
      |||||
Db 341 AMVSE 345

RESULT 9
US-09-935-625-16110
Sequence 16110, Application US/0935625
GENERAL INFORMATION:
APPLICANT: N. ALEXANDROV et al.
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, CELLS, AND METHODS THEREOF CAPABLE
TITLE OF INVENTION: MODULATING VARIOUS RESPONSES
FILE REFERENCE: 2750-1481P
CURRENT APPLICATION NUMBER: US/09/935,625
CURRENT FILING DATE: 2001-08-24
NUMBER OF SEQ ID NOS: 33136
; SEQ ID NO 16110
; LENGTH: 768
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana

; FEATURE:
; NAME/KEY: peptide
; LOCATION: 1..768
; OTHER INFORMATION: Ceres Seq. ID no. 1714504
US-09-935-625-16110

Query Match 100.0%; Score 22; DB 5; Length 768;
Best Local Similarity 100.0%; Pred. No. 2.3e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AMVSE 5
      |||||
Db 6 AMVSE 10

RESULT 10
US-10-155-881-18997
Sequence 18997, Application US/10155881
GENERAL INFORMATION:
APPLICANT: Dotson, Stanton B.
APPLICANT: Kovalic, David K.
APPLICANT: Liu, Jingdong
APPLICANT: Lutfiyya, Linda L.
APPLICANT: McIninch, James
TITLE OF INVENTION: NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH
TITLE OF INVENTION: TRANSCRIPTION IN PLANTS
FILE REFERENCE: 38-21(15300)J
CURRENT APPLICATION NUMBER: US/10/155,881
CURRENT FILING DATE: 2002-05-22
NUMBER OF SEQ ID NOS: 37595
; SEQ ID NO 18997
; LENGTH: 950
; TYPE: PRT
; ORGANISM: Glycine max
US-10-155-881-18997

Query Match 100.0%; Score 22; DB 6; Length 950;
Best Local Similarity 100.0%; Pred. No. 2.9e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AMVSE 5
      |||||
Db 932 AMVSE 936

RESULT 11
US-09-935-625-16229
Sequence 16229, Application US/0935625
GENERAL INFORMATION:
APPLICANT: N. ALEXANDROV et al.
TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, CELLS, AND METHODS THEREOF CAPA
TITLE OF INVENTION: MODULATING VARIOUS RESPONSES
FILE REFERENCE: 2750-1481P
CURRENT APPLICATION NUMBER: US/09/935,625
CURRENT FILING DATE: 2001-08-24
NUMBER OF SEQ ID NOS: 33136
; SEQ ID NO 16229
; LENGTH: 1345
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: peptide
; LOCATION: 1..1345
; OTHER INFORMATION: Ceres Seq. ID no. 1816799
US-09-935-625-16229

Query Match 100.0%; Score 22; DB 5; Length 1345;
Best Local Similarity 100.0%; Pred. No. 4.5e+02;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy   1 AMVSE 5
       |||||
Db   6 AMVSE 10

RESULT 12
US-09-620-393B-801
; Sequence 801, Application US/09620393B
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nickolai et al.
; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
; TITLE OF INVENTION: THEREBY
; FILE REFERENCE: 2750-1068P
; CURRENT APPLICATION NUMBER: US/09/620,393B
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 9948
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 801
; LENGTH: 201
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..201
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..201
; OTHER INFORMATION: Ceres Seq. ID 1377728
US-09-620-393B-801

Query Match   95.5%;   Score 21; DB 5; Length 201;
Best Local Similarity   80.0%; Pred. No. 93;
Matches   4; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 AMVSE 5
       ||:||
Db   71 AMISE 75

RESULT 13
US-09-620-393B-800
; Sequence 800, Application US/09620393B
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nickolai et al.
; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTIDES
; TITLE OF INVENTION: THEREBY
; FILE REFERENCE: 2750-1068P
; CURRENT APPLICATION NUMBER: US/09/620,393B
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 9948
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 800
; LENGTH: 213
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..213
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..213
; OTHER INFORMATION: Ceres Seq. ID 1377727
US-09-620-393B-800

Query Match   95.5%;   Score 21; DB 5; Length 213;
Best Local Similarity   80.0%; Pred. No. 1e+02;
Matches   4; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 AMVSE 5
       ||:||
Db   71 AMISE 75

Db   83 AMISE 87
       ||:||

RESULT 14
US-09-620-393B-799
; Sequence 799, Application US/09620393B
; GENERAL INFORMATION:
; APPLICANT: ALEXANDROV, Nickolai et al.
; TITLE OF INVENTION: SEQUENCE-DETERMINED DNA FRAGMENTS AND CORRESPONDING POLYPEPTID
; TITLE OF INVENTION: THEREBY
; FILE REFERENCE: 2750-1068P
; CURRENT APPLICATION NUMBER: US/09/620,393B
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 9948
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 799
; LENGTH: 220
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..220
; OTHER INFORMATION: Xaa is any amino acid
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1..220
; OTHER INFORMATION: Ceres Seq. ID 1377726
US-09-620-393B-799

Query Match   95.5%;   Score 21; DB 5; Length 220;
Best Local Similarity   80.0%; Pred. No. 1e+02;
Matches   4; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 AMVSE 5
       ||:||
Db   90 AMISE 94

RESULT 15
US-09-935-625-8720
; Sequence 8720, Application US/09935625
; GENERAL INFORMATION:
; APPLICANT: N. ALEXANDROV et al.
; TITLE OF INVENTION: POLYNUCLEOTIDES, POLYPEPTIDES, CELLS, AND METHODS THEREOF CAPA
; TITLE OF INVENTION: MODULATING VARIOUS RESPONSES
; FILE REFERENCE: 2750-1481P
; CURRENT APPLICATION NUMBER: US/09/935,625
; CURRENT FILING DATE: 2001-08-24
; NUMBER OF SEQ ID NOS: 33136
; SEQ ID NO 8720
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Arabidopsis thaliana
; FEATURE:
; NAME/KEY: peptide
; LOCATION: 1..263
; OTHER INFORMATION: Ceres Seq. ID no. 3019814
US-09-935-625-8720

Query Match   95.5%;   Score 21; DB 5; Length 263;
Best Local Similarity   80.0%; Pred. No. 1.3e+02;
Matches   4; Conservative   1; Mismatches   0; Indels   0; Gaps   0;

Qy   1 AMVSE 5
       ||:||
Db   71 AMISE 75